

SEQUENCE LISTING

<110> DNAVEC RESEARCH INC.

<120> Method for producing transgenic dendritic-cells

<130> D3-A0307Y1P

<140>

<141>

<150> JP 2003-374808

<151> 2003-11-04

<160> 15

<170> PatentIn version 3.1

<210> 1

<211> 10

<212> DNA

<213> Artificial

<220>

<223> artificially synthesized sequence

<400> 1

ctttcacct

10

<210> 2

<211> 15

<212> DNA

<213> Artificial

<220>

<223> artificially synthesized sequence

<400> 2

ttttttcttac tacgg

15

<210> 3

<211> 18

<212> DNA

<213> Artificial

<220>

<223> artificially synthesized sequence

<400> 3

cggccgcaga tcttcacg

18

<210> 4

<211> 18

<212> DNA

<213> Artificial
 <220>
 <223> artificially synthesized sequence
 <400> 4
 atgcatgccg gcagatga 18

<210> 5
 <211> 18
 <212> DNA
 <213> Artificial
 <220>
 <223> artificially synthesized sequence
 <400> 5
 gttgagtact gcaagagc 18

<210> 6
 <211> 42
 <212> DNA
 <213> Artificial
 <220>
 <223> artificially synthesized sequence
 <400> 6
 tttgccggca tgcattttc ccaaggggag agttttgcaa cc 42

<210> 7
 <211> 18
 <212> DNA
 <213> Artificial
 <220>
 <223> artificially synthesized sequence
 <400> 7
 atgcatgccg gcagatga 18

<210> 8
 <211> 21
 <212> DNA
 <213> Artificial
 <220>
 <223> artificially synthesized sequence
 <400> 8
 tgggtgaatg agagaatcag c 21

<210> 9
<211> 10
<212> PRT
<213> Artificial

<220>
<223> an artificially synthesized peptide

<400> 9

Glu Ala Ala Gly Ile Gly Ile Leu Thr Val
1 5 10

<210> 10
<211> 10
<212> PRT
<213> Artificial

<220>
<223> an artificially synthesized peptide

<400> 10

Glu Leu Ala Gly Ile Gly Ile Leu Thr Val
1 5 10

<210> 11
<211> 9
<212> PRT
<213> Artificial

<220>
<223> an artificially synthesized peptide

<400> 11

Gly Ile Leu Gly Phe Val Phe Thr Leu
1 5

<210> 12
<211> 561
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1)..(561)
<223>

<220>
<221> sig_peptide
<222> (1)..(21)
<223>

<400> 12
 atg acc aac aag tgt ctc ctc caa att gct ctc ctg ttg tgc ttc tcc 48
 Met Thr Asn Lys Cys Leu Leu Gln Ile Ala Leu Leu Leu Cys Phe Ser
 1 5 10 15

 act aca gct ctt tcc atg agc tac aac ttg ctt gga ttc cta caa aga 96
 Thr Thr Ala Leu Ser Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg
 20 25 30

 agc agc aat ttt cag tgt cag aag ctc ctg tgg caa ttg aat ggg agg 144
 Ser Ser Asn Phe Gln Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg
 35 40 45

 ctt gaa tat tgc ctc aag gac agg atg aac ttt gac atc cct gag gag 192
 Leu Glu Tyr Cys Leu Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu
 50 55 60

 att aag cag ctg cag cag ttc cag aag gag gac gcc gca ttg acc atc 240
 Ile Lys Gln Leu Gln Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile
 65 70 75 80

 tat gag atg ctc cag aac atc ttt gct att ttc aga caa gat tca tct 288
 Tyr Glu Met Leu Gln Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser
 85 90 95

 agc act ggc tgg aat gag act att gtt gag aac ctc ctg gct aat gtc 336
 Ser Thr Gly Trp Asn Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val
 100 105 110

 tat cat cag ata aac cat ctg aag aca gtc ctg gaa gaa aaa ctg gag 384
 Tyr His Gln Ile Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu
 115 120 125

 aaa gaa gat ttt acc agg gga aaa ctc atg agc agt ctg cac ctg aaa 432
 Lys Glu Asp Phe Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys
 130 135 140

 aga tat tat ggg agg att ctg cat tac ctg aag gcc aag gag tac agt 480
 Arg Tyr Tyr Gly Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser
 145 150 155 160

 cac tgt gcc tgg acc ata gtc aga gtg gaa atc cta agg aac ttt tac 528
 His Cys Ala Trp Thr Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr
 165 170 175

 ttc att aac aga ctt aca ggt tac ctc cga aac 561
 Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn
 180 185

<210> 13
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 13
 Met Thr Asn Lys Cys Leu Leu Gln Ile Ala Leu Leu Leu Cys Phe Ser

1	5	10	15
Thr Thr Ala	Leu Ser Met Ser Tyr	Asn Leu Leu Gly Phe	Leu Gln Arg
20	25	30	
Ser Ser Asn	Phe Gln Cys Gln Lys	Leu Leu Trp Gln	Leu Asn Gly Arg
35	40	45	
Leu Glu Tyr	Cys Leu Lys Asp Arg	Met Asn Phe Asp	Ile Pro Glu Glu
50	55	60	
Ile Lys Gln	Leu Gln Gln Phe Gln	Lys Glu Asp Ala	Ala Leu Thr Ile
65	70	75	80
Tyr Glu Met	Leu Gln Asn Ile Phe	Ala Ile Phe Arg	Gln Asp Ser Ser
85	90	95	
Ser Thr Gly	Trp Asn Glu Thr Ile	Val Glu Asn Leu	Leu Ala Asn Val
100	105	110	
Tyr His Gln	Ile Asn His Leu Lys	Thr Val Leu Glu	Glu Lys Leu Glu
115	120	125	
Lys Glu Asp	Phe Thr Arg Gly Lys	Leu Met Ser Ser	Leu His Leu Lys
130	135	140	
Arg Tyr Tyr	Gly Arg Ile Leu His	Tyr Leu Lys Ala	Lys Glu Tyr Ser
145	150	155	160
His Cys Ala	Trp Thr Ile Val Arg	Val Glu Ile Leu	Arg Asn Phe Tyr
165	170	175	
Phe Ile Asn	Arg Leu Thr Gly Tyr	Leu Arg Asn	
180	185		

<210> 14
 <211> 546
 <212> DNA
 <213> Mus musculus

<220>
 <221> CDS
 <222> (1)..(546)
 <223>

<220>
 <221> sig_peptide
 <222> (1)..(21)
 <223>

<400> 14	
atg aac aac agg tgg atc ctc cac gct gcg ttc ctg ctg tgc ttc tcc	48
Met Asn Asn Arg Trp Ile Leu His Ala Ala Phe Leu Leu Cys Phe Ser	
1 5 10 15	

acc aca gcc ctc tcc atc aac tat aag cag ctc cag ctc caa gaa agg	96
---	----

Thr	Thr	Ala	Leu	Ser	Ile	Asn	Tyr	Lys	Gln	Leu	Gln	Leu	Gln	Glu	Arg	
			20					25					30			
acg	aac	att	cgg	aaa	tgt	cag	gag	ctc	ctg	gag	cag	ctg	aat	gga	aag	144
Thr	Asn	Ile	Arg	Lys	Cys	Gln	Glu	Leu	Leu	Glu	Gln	Leu	Asn	Gly	Lys	
		35					40				45					
atc	aac	ctc	acc	tac	agg	gcg	gac	ttc	aag	atc	cct	atg	gag	atg	acg	192
Ile	Asn	Leu	Thr	Tyr	Arg	Ala	Asp	Phe	Lys	Ile	Pro	Met	Glu	Met	Thr	
	50					55				60						
gag	aag	atg	cag	aag	agt	tac	act	gcc	ttt	gcc	atc	caa	gag	atg	ctc	240
Glu	Lys	Met	Gln	Lys	Ser	Tyr	Thr	Ala	Phe	Ala	Ile	Gln	Glu	Met	Leu	
65					70				75						80	
cag	aat	gtc	ttt	ctt	gtc	ttc	aga	aac	aat	ttc	tcc	agc	act	ggg	tgg	288
Gln	Asn	Val	Phe	Leu	Val	Phe	Arg	Asn	Asn	Phe	Ser	Ser	Thr	Gly	Trp	
			85					90						95		
aat	gag	act	att	gtt	gta	cgt	ctc	ctg	gat	gaa	ctc	cac	cag	cag	aca	336
Asn	Glu	Thr	Ile	Val	Val	Arg	Leu	Leu	Asp	Glu	Leu	His	Gln	Gln	Thr	
			100				105					110				
gtg	ttt	ctg	aag	aca	gta	cta	gag	gaa	aag	caa	gag	gaa	aga	ttg	acg	384
Val	Phe	Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Gln	Glu	Glu	Arg	Leu	Thr	
	115					120					125					
tgg	gag	atg	tcc	tca	act	gct	ctc	cac	ttg	aag	agc	tat	tac	tgg	agg	432
Trp	Glu	Met	Ser	Ser	Thr	Ala	Leu	His	Leu	Lys	Ser	Tyr	Tyr	Trp	Arg	
	130					135					140					
gtg	caa	agg	tac	ctt	aaa	ctc	atg	aag	tac	aac	agc	tac	gcc	tgg	atg	480
Val	Gln	Arg	Tyr	Leu	Lys	Leu	Met	Lys	Tyr	Asn	Ser	Tyr	Ala	Trp	Met	
145					150					155					160	
gtg	gtc	cga	gca	gag	atc	ttc	agg	aac	ttt	ctc	atc	att	cga	aga	ctt	528
Val	Val	Arg	Ala	Glu	Ile	Phe	Arg	Asn	Phe	Leu	Ile	Ile	Arg	Arg	Leu	
			165					170					175			
acc	aga	aac	ttc	caa	aac											546
Thr	Arg	Asn	Phe	Gln	Asn											
			180													

<210> 15
 <211> 182
 <212> PRT
 <213> Mus musculus

<400> 15
 Met Asn Asn Arg Trp Ile Leu His Ala Ala Phe Leu Leu Cys Phe Ser
 1 5 10 15

Thr Thr Ala Leu Ser Ile Asn Tyr Lys Gln Leu Gln Leu Gln Glu Arg
 20 25 30

Thr Asn Ile Arg Lys Cys Gln Glu Leu Leu Glu Gln Leu Asn Gly Lys

35						40				45					
Ile	Asn	Leu	Thr	Tyr	Arg	Ala	Asp	Phe	Lys	Ile	Pro	Met	Glu	Met	Thr
	50					55					60				
Glu	Lys	Met	Gln	Lys	Ser	Tyr	Thr	Ala	Phe	Ala	Ile	Gln	Glu	Met	Leu
65					70					75					80
Gln	Asn	Val	Phe	Leu	Val	Phe	Arg	Asn	Asn	Phe	Ser	Ser	Thr	Gly	Trp
				85					90					95	
Asn	Glu	Thr	Ile	Val	Val	Arg	Leu	Leu	Asp	Glu	Leu	His	Gln	Gln	Thr
			100					105					110		
Val	Phe	Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Gln	Glu	Glu	Arg	Leu	Thr
		115					120					125			
Trp	Glu	Met	Ser	Ser	Thr	Ala	Leu	His	Leu	Lys	Ser	Tyr	Tyr	Trp	Arg
	130					135					140				
Val	Gln	Arg	Tyr	Leu	Lys	Leu	Met	Lys	Tyr	Asn	Ser	Tyr	Ala	Trp	Met
145					150					155					160
Val	Val	Arg	Ala	Glu	Ile	Phe	Arg	Asn	Phe	Leu	Ile	Ile	Arg	Arg	Leu
				165					170					175	
Thr	Arg	Asn	Phe	Gln	Asn										
			180												